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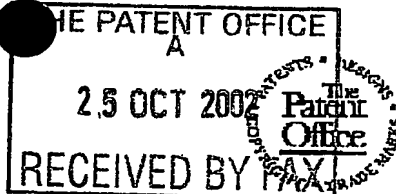
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Patents Act 1977
(Rule 16)0224863-1
200202 E758645-1 C12133
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1777

Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

ORIGINAL

The Patent Office

Cardiff Road
Newport
South Wales
NP10 8QQ

1. Your reference

552

2. Patent application number

(The Patent Office will fill in this part)

0224863.1

25 OCT 2002

3. Full name, address and postcode of the or of each applicant (underline all surnames)

SANDPIPER ASSOCIATES
68 High Street
Oxford
Sevenoaks
Kent TN14 5PH

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

English

8308751001

4. Title of the invention

Depth Control

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Alan Cohen
2 Grove Place
Tatsfield
Nr. Westerham
Kent TN16 2BB

Patents ADP number (if you know it)

696 3557001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
(if you know it)Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- a) any applicant named in part 3 is not an inventor, or
 - b) there is an inventor who is not named as an applicant, or
 - c) any named applicant is a corporate body.
- See note (d))

No

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9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description	3
Claim(s)	1
Abstract	1
Drawing(s)	1

only for

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

1

Request for preliminary examination and search (Patents Form 9/77)

X

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11.

I/We request the grant of a patent on the basis of this application.

Signature:

Date

24 Oct 2002

12. Name and daytime telephone number of person to contact in the United Kingdom

Alan Cohen - 01959 577172

Warning

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Notes

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Depth Control

The present invention relates to a depth control means for use with a router or the like.

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A router is a tool which is used for cutting precise edges, grooves or shapes in a workpiece.

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In a typical straight or curve line cutting guide, the workpiece is clamped securely to the guide and the required cut is made. Several U.S. patents have issued which offer guides for routers. Most of these prior art devices lack the necessary flexibility, adaptability, and variety of applications. US Patents 4966507, 4434824, 4281604, 4630657, 4215731 describes such guides.

15

In using a typical router the router has a base plate located beneath the router bit over which the material to be cut is placed, the router is then lowered so the bit cuts into the material. However even though there are depth gauges positioned on the router it is difficult to know what the actual depth of cut is and it is usually initially determined by measuring the depth and then setting the router accordingly.

20

We have now devised an attachment for use with routers which reduces or overcomes this problem.

25

According to the invention there is provided a device for controlling the depth of a router blade in a router which router comprises a router body and a base plate which device comprises a bar attached to the base plate which bar has a threaded lower section which screws into a nut attached to the router plate and screws into an upper threaded section of the bar the bar having sequentially mounted on it (i) a first collar which can slide up and down the bar and is lockable to the bar (ii) a second collar attached to the router body through which the bar slides and to which the bar can be locked and (iii) a fine adjustment means which can turn the threaded section of the

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bar in the upper section of the bar and which is operable from the side of the router plate remote from the router.

5 Preferably there is a pointer slidably attached to the bar which can mark a location on a scale.

The bar can be any shape, but for convenience is typically round.

10 The fine adjustment means can be a screw head attached to the end which can be turned by a screw driver so that the lower threaded end of the bar screws in or out of the upper threaded section of the bar.

15 In use, in order to control the depth of a cut by the router blade the router blade is placed in contact with the material which is to be cut i.e. the bit engages the surface, the second collar is locked in position on the router body. The gap between the first and second collars is adjusted to the approximate depth of cut by moving the first collar and locking it in position, the fine adjustment means is then adjusted so that the gap between the first and second collars is the exact depth of cut required. When the router bit is operated the second collar is unlocked and the router body attached to the
20 bit is slid down so that the bar slide through the second collar and when the first collar comes into contact with the second collar the bit has cut into the material to the exact depth.

25 The invention is illustrated in the accompanying drawings.

Referring to fig. 1 a router body (1) has a bar (2) attached to it on the bar (2) are a first collar (3) which can be screwed to the bar by bolt (4) and collar (5) which can be locked to the bar by bolt (6). There is a pointer (7) slidably attached to the bar which indicates a location on scale (8).

30

At the lower end of bar (2) there is a threaded section (9) which engages a nut (10) in the router plate (11), there is an adjustment nut (12) which can lock the bar in

- 3 -

position on the plate and a screw head at (14) operated from beneath the plate on the end of (9) which turns (9).

Figure 2 show the router being use in an upward direction e.g. on a router table.

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In use the gap (A) between (3) and (5) is set to about the required distance using the scale (8) and the collars (3) and (5) locked in place, the fine adjustment is carried out by turning the threaded section of the bar in the nut (10) until the precise distance (B) is obtained and the bar is locked in position by nut (12).

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The material to be cut (15) in fig. 2 is placed beneath the router plate (11) and the bit (15) engages the surface, the screw (6) is loosened and the router bit can then cut into the material to the precise distance.

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Claims

1. A device for controlling the depth of a router blade in a router which router comprises a router body and a base plate which device comprises a bar attached to the
5 base plate which bar has a threaded lower section which screws into a nut attached to the router plate and screws into an upper threaded section of the bar the bar having sequentially mounted on it (i) a first collar which can slide up and down the bar and is lockable to the bar (ii) a second collar attached to the router body through which the bar slides and to which the bar can be locked and there being (iv) a fine adjustment
10 means which can turn the threaded section of the bar in the upper section of the bar.
2. A device as claimed in claim 1 in which the fine adjustment means is operable from the side of the router plate remote from the router.
- 15 3. A device as claimed in claim 1 or 2 in which there is a pointer slidably attached to the bar which can mark a location on a scale on the router body.
4. A device as claimed in claim 1, 2 or 3 is a screw head attached to the end which can be turned by a screw driver so that the lower threaded end of the bar screws in or
20 out of the upper threaded section of the bar.
5. A device as hereinbefore described with reference to the drawings.

- 5 -

Abstract

A depth gauge for routers which can be adjusted to a fine adjustment and which can be used when the router is used in an upside down direction

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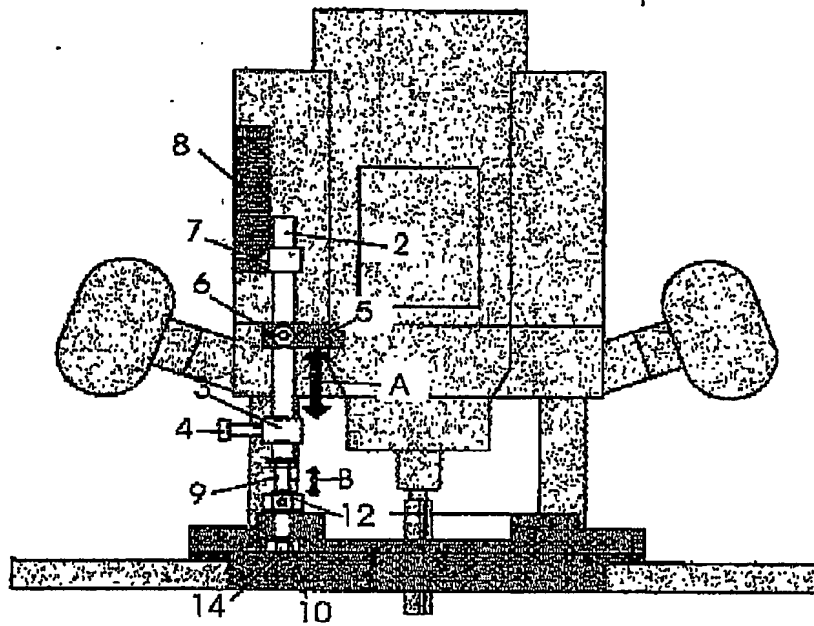


Fig. 1

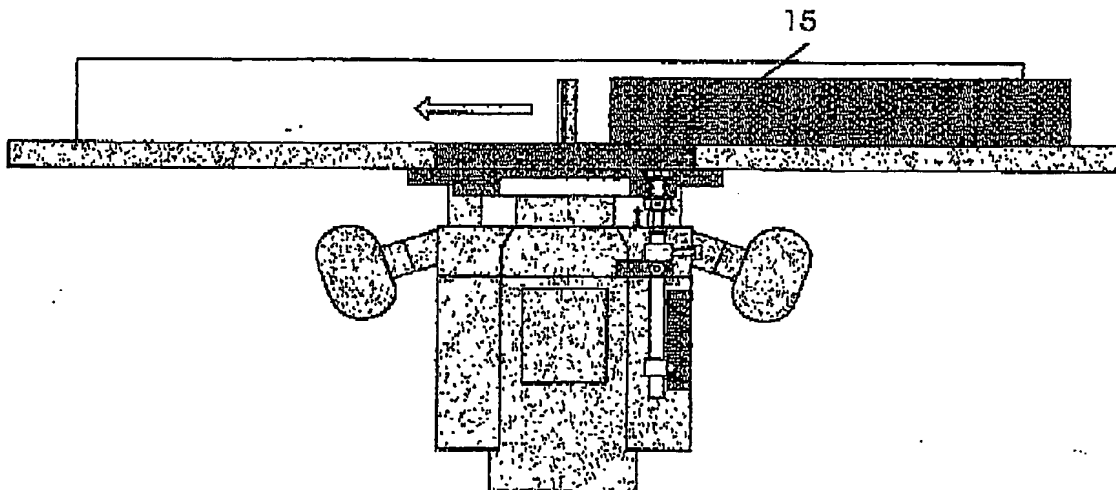


Fig. 2